

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A control device for carrying out a predetermined process in response to a trigger signal from a sensor, comprising:

a signal input unit connected to the sensor and configured to receive ~~[[said]]~~ a trigger signal;

a detector connected to an image capturing unit and configured to receive continuous images ~~and detect a change in the images by analyzing the~~ from the image capturing unit, said detector being configured to analyze images obtained from said image capturing unit for at least a period of time beginning at a time of a trigger signal and ending a predetermined amount of time after the trigger signal, said detector being configured to determine whether or not a change occurs in such images during said period of time;

a determining unit which determines ~~that said whether or not a~~ trigger signal is a valid signal ~~[[when]]~~, said determining unit being configured to determine, based on analysis by said detector, that the trigger signal is valid in the case that said detector ~~detects no~~ does not detect a change in the images ~~within a predetermined time from the input of said trigger signal to said signal input unit during said period of time;~~ and

a controller, ~~responsive to said determining unit, which is~~ configured to carry out a predetermined process ~~when said in the case that said determining unit determines that a~~ trigger signal is ~~determined to be a valid signal by the determining unit.~~

2. (Canceled)

3. (Currently Amended) The control device according to claim 1, wherein said sensor detects an intruding object ~~[[into]]~~ in a predetermined monitoring area in which images are captured by said image capturing unit.

4. (Original) The control device according to claim 1, wherein
said detector detects whether or not any moving object exists in each of the images in
an image stream that continues in time series, which are obtained from said image capturing
unit.

5. (Canceled)

6. (Previously Presented) The control device according to claim 1, wherein
said controller carries out different processes between a case where said trigger signal
is not determined as a valid signal by said determining unit and that where said trigger signal
is determined as a valid signal by said determining unit.

7. (Previously Presented) The control device according to claim 1, further
comprising:

a recorder recording continuous images obtained from said image capturing unit,
wherein

said controller controls said recorder so as to record the continuous images obtained
from said image capturing unit, when said determining unit determines said trigger signal as a
valid signal.

8. (Previously Presented) The control device according to claim 1, wherein
when said trigger signal is determined as a valid signal by said determining unit, said
controller outputs a signal used for activating an external apparatus connected to the control
device.

9. (Canceled)

10. (Previously Presented) The control device according to claim 1, further
comprising:

a sound-data storage unit storing sound data, wherein

when said trigger signal is determined as a valid signal by said determining unit, said controller generates sound based upon sound data stored in said sound-data storage unit.

11. (Previously Presented) The control device according to claim 1, further comprising:

a communication unit carrying out data communications with an external apparatus, wherein

when said trigger signal is determined as a valid signal by said determining unit, said controller allows said communication unit to output information indicating the result of determination to said external apparatus.

12.-15. (Canceled)

16. (Currently Amended) A control method of carrying out a predetermined process in response to a trigger signal from a sensor, comprising the steps of:

receiving [[the]] a trigger signal from the sensor;

receiving continuous images from an image capturing unit;

detecting a change in the images by analyzing the images for at least a period of time beginning at a time of a trigger signal and ending a predetermined amount of time after the trigger signal;

determining [[said]] with an electronic computing device, based on analysis by said detecting step, that a trigger signal is a valid signal when no in the case that said detecting step does not detect a change is detected in the images within a predetermined time from the input of said trigger signal during said period of time; and

carrying out a predetermined process ~~when said~~ in response to said determining step determining that a trigger signal is determined as a valid signal.

17. (Previously Presented) The control method according to claim 16, wherein said change in the images is detected by determining whether or not any moving object exists in each of the images in an image stream that continues in time series.

18. (Previously Presented) The control method according to claim 16, wherein:
said predetermined process includes a process to record the images.

19. (Canceled)

20. (Currently Amended) A control device for carrying out a predetermined process in response to a trigger signal, comprising:

a signal input unit configured to receive [[said]] a trigger signal;

a detector configured to receive continuous images from an image capturing unit and to detect a change in the images by analyzing the images obtained from said image capturing unit, said detector being further configured to analyze the images during a first time period commencing at the time of a trigger signal and ending a first predetermined amount of time after the trigger signal, said detector being further configured to analyze the images during a second time period commencing at the end of the first time period and ending a second predetermined amount of time after the first time period, and said detector being further configured to analyze the images during a third time period commencing at the end of the second time period;

a determining unit which determines [[said]] whether or not a trigger signal is a valid signal based on analysis by said detector, said determining unit being configured to determine that the trigger signal is an invalid signal [[when]] in the case that said detector detects a change in the images within a predetermined time period between a first time from the input of said trigger signal to said signal input unit and a second time subsequent to said first time during the second time period, and determines said determining unit being further configured to determine that the trigger signal is a valid signal [[when]] in the case that said detector detects a change in images before said first time or after said second time during one of the first and third time periods; and

a controller carrying responsive to said determining unit, which is configured to carry out a predetermined process when said in the case that said determining unit determines that a trigger signal is determined as a valid signal by the determining unit.

21. (Previously Presented) The control device according to claim 20, wherein said signal input unit is connected to a sensor which generates said trigger signal.
22. (Currently Amended) The control device according to claim 21, wherein said sensor unit detects an intruding object [[into]] in a predetermined monitoring area from which the continuous images are captured by said image capturing unit.
23. (Previously Presented) The control device according to claim 20, wherein said detector detects whether or not any moving object exists in each of the continuous images in an image stream that continues in time series.
24. (Previously Presented) The control device according to claim 20, wherein said controller carries out different processes between a case where said trigger signal is determined as an invalid signal by said determining unit and that where said trigger signal is determined as a valid signal by said determining unit.
25. (Previously Presented) The control device according to claim 20, further comprising:
a recorder recording the continuous images obtained from said image capturing unit, wherein
said controller controls said recorder so as to record the continuous images obtained from said image capturing unit when said determining unit determines said trigger signal as a valid signal.
26. (Previously Presented) The control device according to claim 20, wherein when said trigger signal is determined as a valid signal by said determining unit, said controller outputs a signal used for activating an external apparatus connected to the control device.
27. (Previously Presented) The control device according to claim 20, further comprising:

a sound-data storage unit storing sound data, wherein
when said trigger signal is determined as a valid signal by said determining unit, said controller generates sound based upon sound data stored in said sound-data storage unit.

28. (Previously Presented) The control device according to claim 20, further comprising:

a communication unit carrying out data communications with an external apparatus, wherein

when said trigger signal is determined as a valid signal by said determining unit, said controller allows said communication unit to output information indicating the result of determination to said external apparatus.

29. (Currently Amended) A computer readable medium encoded with a program which can be run by a computer to which a trigger signal and continuous images are inputted, said program causing the computer to implement a method comprising the steps of:

receiving ~~[[said]]~~ a trigger signal;

receiving said continuous images;

detecting a change in the continuous images by analyzing the continuous images that are received after the input of ~~[[said]]~~ the trigger signal, said detecting step further analyzing the images during a first time period commencing at the time of a trigger signal and ending a first predetermined amount of time after the trigger signal, said detecting step further analyzing the images during a second time period commencing at the end of the first time period and ending a second predetermined amount of time after the first time period, and said detecting step further analyzing the images during a third time period commencing at the end of the second time period;

determining ~~[[said]]~~ , based on analysis by the detecting step, that a trigger signal is an invalid signal ~~[[when]]~~ in the case that said detecting step detects a change in images is detected within a predetermined time period between a first time from the input of said trigger signal and a second time subsequent to said first time during the second time period, and determining ~~[[said]]~~ , based on analysis by the detecting step, that a trigger signal ~~[[as]]~~ is

a valid signal ~~[[when]]~~ in the case that said detecting step detects a change in images is detected ~~before said first time or after said second time during one of the first and third time periods;~~ and

carrying out, in response to said determining step, a predetermined process ~~[[when]]~~ in the case that said trigger signal is determined ~~as to be~~ a valid signal.

30. (Currently Amended) A control method of carrying out a predetermined process in response to a trigger signal, comprising the steps of:

receiving ~~[[the]]~~ a trigger signal;

receiving continuous images from an image capturing unit;

detecting a change in the images by analyzing the images, said detecting step further analyzing the images during a first time period commencing at the time of a trigger signal and ending a first predetermined amount of time after the trigger signal, said detecting step further analyzing the images during a second time period commencing at the end of the first time period and ending a second predetermined amount of time after the first time period, and said detecting step further analyzing the images during a third time period commencing at the end of the second time period;

determining ~~[[said]]~~ with an electronic computer device, based on an analysis by said detecting step, that a trigger signal is an invalid signal ~~[[when]]~~ in the case that a change in the images is detected ~~within a predetermined time period between a first time from the input of said trigger signal and a second time subsequent to said first time during the second time period,~~ and determining ~~[[said]]~~ with an electronic computer device, based on an analysis by said detecting step, that a trigger signal is a valid signal ~~[[when]]~~ in a case that a change in images is detected ~~before said first time or after said second time during one of the first and third time periods;~~ and

carrying out a predetermined process when said trigger signal is determined as a valid signal.

31. (Previously Presented) The control method according to claim 30, wherein said change in images is detected by determining whether or not any moving object exists in each of the images in an image stream that continues in time series.

32. (Previously Presented) The control method according to claim 30, wherein; said predetermined process includes a process to record the continuous images.

33. (Currently Amended) A control device for carrying out a predetermined process in response to a trigger signal from a sensor, comprising:
a signal input unit connected to a sensor and configured to receive a trigger signal;
a detector connected to an image capturing unit and configured to receive continuous images and detect a change in the images by analyzing the images obtained from the image capturing unit for at least a period of time beginning at a time of a trigger signal and ending a predetermined amount of time after the trigger signal;

a determining unit, ~~responsive to said detector~~, configured to determine whether [[the]] or not a trigger signal is a valid signal, said determining unit ~~determining~~ configured to determine, based on analysis by said detector, that the trigger signal is a valid signal [[when]] in the case that said detector detects no change in images that are received in [[the]] said period of time ~~after the trigger signal until a time-out~~; and

a controller, responsive to said determining unit, which is configured to carry out a predetermined process [[when]] in the case that the trigger signal is determined to be a valid signal ~~by said determining unit~~.

34. (Currently Amended) A control device for carrying out a predetermined process in response to a trigger signal from a sensor, comprising:
a signal input unit connected to a sensor and configured to receive a trigger signal;
a detector connected to an image capturing unit and configured to receive continuous images and detect a change in the images by analyzing the images obtained from the image capturing unit, said detector being further configured to analyze the images during a first time period commencing at the time of a trigger signal and ending a first predetermined amount of

time after the trigger signal, said detector being further configured to analyze the images during a second time period commencing at the end of the first time period and ending a second predetermined amount of time after the first time period, and said detector being further configured to analyze the images during a third time period commencing at the end of the second time period;

a determining unit, ~~responsive to said detector~~, configured to determine, based on analysis by said detector, whether ~~[[the]]~~ a trigger signal is a valid signal, said determining unit determining that the trigger signal is an invalid signal ~~[[when]]~~ in the case that said detector detects a change in images ~~within a predetermined time period between a first time after the input of the trigger signal and a second time subsequent to the first time during the second time period~~, and said determining unit ~~determining~~ configured to determine that the trigger signal is a valid signal ~~[[when]]~~ in the case that said detector detects a change in images during one of the first and third time periods; and

a controller, responsive to said determining unit, which is configured to carry out a predetermined process ~~when the~~ in the case that said determining unit determines that a trigger signal is ~~determined to be~~ a valid signal ~~by said determining unit~~.

35. (New) The control device according to claim 1, wherein said detector is further configured to activate an image capturing unit from a stand-by state to start image capturing in response to a trigger signal.

36. (New) The control device according to claim 20, wherein said detector is further configured to activate an image capturing unit from a stand-by state to start image capturing in response to a trigger signal.